

Date: Tuesday, 4/25/2006 8:42:10 AM  
User: Kim Johnston

## Process Sheet

<b>Customer</b>	: CU-DAR001 Dart Helicopters Services		<b>Drawing Name</b>	: JACK SADDLE		
<b>Job Number</b>	: 26814					
<b>Estimate Number</b>	: 11177					
<b>P.O. Number</b>	: N/A			<b>Part Number</b>	: D2281	
<b>This Issue</b>	: 4/25/2006		<b>S.O. No.</b>	: N/A		
<b>Prsht Rev.</b>	: NC			<b>Drawing Number</b>	: D2281 REV G	
<b>First Issue</b>	: N/A		<b>Type</b>	: SMALL /MED FAB		
<b>Previous Run</b>	: 25132			<b>Project Number</b>	: N/A	
<b>Written By</b>	: See If Comment Below			<b>Drawing Revision</b>	: G	
<b>Checked &amp; Approved By</b>	: JLM			<b>Material</b>	: N/A	
<b>Comment</b>	Est Rev:A	Removed from 9 Digit	05-12-02	JLM	<b>Due Date</b>	: 5/20/2006
					<b>Qty:</b>	100
					<b>Um:</b>	Each

## Additional Product

Job Number:



Seq. #:	Machine Or Operation:	Description :	
1.0	PG	PURCHASING	
		Comment: PURCHASING Issue P/O: 1090 Email or Ship Dxf file to vendor Laser cut as per Dwg D2281 Material release note required.	
2.0	D2281F	Jack Saddle	
		Comment: Qty.: 1.0000 Each(s)/Unit Total : 100.0000 Each(s) Jack Saddle	
3.0	PACKAGING 1	PACKAGING RESOURCE #1	
		Comment: PACKAGING RESOURCE #1 Receive & Inspect For Transit Damage Ensure material certification is attached	
4.0	QC6	DIMENSIONAL CHECK	
		Comment: DIMENSIONAL CHECK	
5.0	SMALL FAB 1	SMALL & MEDIUM FAB RESOURCE 1	
		Comment: Deburr.	

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes  No  DQA:  Date: 06/06/07  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: JACK SADDLE

Job Number: 26814

Part Number: D2281

Job Number:



Seq. #: Machine Or Operation:

Description :

6.0 BRAKE NC NC BRAKE



Comment: NC BRAKE

Form as per D2281 using D2281-T2

SB 06/06/05 99

7.0 QC5 INSPECT WORK TO CURRENT STEP



ST

Comment: INSPECT WORK TO CURRENT STEP

8.0 PACKAGING 1 PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock

Location: W521

CPL 06-06-06

9.0 DC DOCUMENT CONTROL



99

Comment: DOCUMENT CONTROL

Inspection Level 21

DP 06/06/05

Job Completion



LL 06.06.05

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

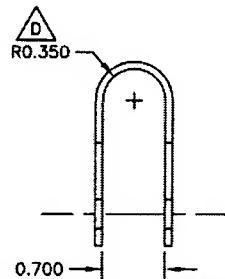
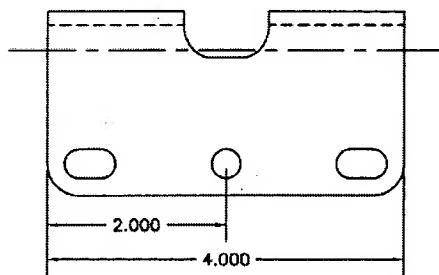
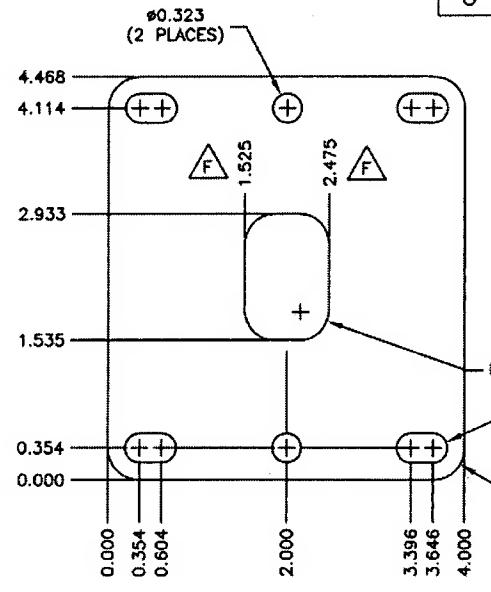
NOTE: Date & initial all entries



DESIGN BW	DRAWN BY <i>BS</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>ip</i>	APPROVED <i>MMS</i>	DRAWING NO. D2281	REV. G SHEET 1 OF 1
DATE 05.06.07		TITLE JACK SADDLE	SCALE 1:2

RELEASED  
*AB*  
05/08/11

A	94.10.14	NEW ISSUE
B	94.10.18	DIMENSION WAS 2.878
C	94.11.04	ADD TOOLING NOTCH
D	98.03.27	R0.350 WAS R0.280
E	04.11.18	REMOVE TOOLING NOTCHES
F	05.03.16	REDESIGN FLAT PATTERN
G	05.06.07	REDESIGN FLAT PATTERN



SHOP COPY  
RETURN TO  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. *26814*

#### D2281 JACK SADDLE

- 1) MATERIAL: 304/316 SS, 0.080 THICK (REF DART SPEC. M304S14GA)
- 2) FINISH: NONE
- 3) BREAK ALL SHARP EDGES 0.005 TO 0.010
- 4) ALL DIMENSIONS ARE IN INCHES
- 5) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

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<http://www.tisco.com.cn>  
E-mail: tgbxg@tisco.com.cn

### MILL TEST CERTIFICATE

MATERIAL	AISI304 No.2B Finish
SPECIFICATION	ASTM A240/A480 ASME SA240/SA480
L/C NO.	
CERTIFICATE NO.	20051187
DATE OF ISSUE	/ /

CUSTOMER CONTRACT NO. DATA OF  
OLBERT 1187 2005/11/20

Product Melting furnace Inspection stamp Mark of the Manufacturer  
COIL E+VOD Shanxi Taiyuan Stainless Steel Co.,ltd

NO.	Heat No.	Cell No.	Quantity	Dimensions	Weight (kg)
8.	4505286	SA9-493-1ZD	1	11GA × 48 × C	7009
9	Y506019	SA9-483-1ZB	1	11GA × 48 × C	6679
10	4505044	SA9-458-1ZY	1	14GA × 48 × C	5461
11	4505274	SA9-450-1ZD	1	11GA × 48 × C	4832
12	4505271	SA10-44-32J	1	16GA × 48 × C	8906
13	4505050	SA10-53-12J	1	16GA × 48 × C	8617
14	4505393	SA10-70-4ZY	1	14GA × 48 × C	8612

Chemical Composition												
Heat No.	C	Si	Mn	P	S	Cr	Ni	Cu	Al	Mo	N	
4505286	0.060	0.470	1.400	0.017	0.003	18.170	8.020	0.010	0.010	0.010	0.055	
Y506019	0.050	0.350	0.990	0.032	0.004	18.300	8.090	0.440	0.006	0.120	0.070	
4505044	0.060	0.450	1.370	0.018	0.002	18.200	8.120	0.010	0.010	0.010	0.050	
4505274	0.060	0.520	1.320	0.017	0.002	18.150	8.120	0.010	0.010	0.010	0.045	
4505271	0.060	0.470	1.320	0.016	0.003	18.170	8.110	0.010	0.010	0.010	0.045	
4505050	0.050	0.480	1.290	0.014	0.002	18.230	8.040	0.010	0.010	0.010	0.040	
4505393	0.070	0.480	1.360	0.017	0.002	18.200	8.070	0.010	0.010	0.010	0.040	

Test No.	Tensile Rm N/mm <sup>2</sup>	R <sub>p0.2</sub> Yield 0.2% N/mm <sup>2</sup>	R <sub>pt0.5</sub> Yield 0.5% N/mm <sup>2</sup>	Elongation A5%	Corrosion Time	Hardness		
						HRB	HV	HRC
4505286-T	635	282		53		84 - 83		
Y506019-T	650	266		53		88		
4505044-T	675	307		59		83 - 83		
4505274-T	690	299		56		86 - 85		
4505271-T	700	326		54			188 - 185	
4505050-T	695	297		57			190 - 188	
4505393-T	680	303		60		86 - 85		

Surface and dimensions controlled:	
Work Inspector:	

P60124PC001V 3042B .062X48 HT 4505271 4505050



New Zealand Steel Limited  
Glenbrook, 1628 Auckland  
Postal: Private Bag 92121, Auckland, New Zealand  
Telephone: (09) 376 0998 / 375 6111 Auckland  
(09) 235 8238 / 235 3638 Waitemata  
Fax: (09) 375 0999

## TEST CERTIFICATE

Ref: AS124548

CUSTOMER		Wilksons		SPECIFICATION										ASTM A101 CS Type B.										CERTIFICATE No		TC124548	
CUSTOMER ORN		98-JIN-108		PRODUCT										HOT ROLLED PICKLED & OILED										PAGE		1 of 1	
MILL ORN		518691		DIMENSIONS										0.104" x 48" x Coil										DATE		17 January 2006	
PACK NUMBER	(Sample) HEAT No	CHEMICAL COMPOSITION PERCENT										MECHANICAL TESTS (TEST SPECIFICATION -															
		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	ND	TR	Al	B	N2	CE(%)	BEND x1000 x100	YIELD 180°	T.S. GL.	WELDING	THICKNESS	L J	LENGTH (mm)			
HP-997711-00	646664	6	1	20	9	19												Good							942		
HP-997712-00	646664	6	1	20	9	19												Good							961		
HP-997713-00	646846	5	TR	20	11	19												Good							955		
HP-997714-00	646846	5	TR	20	11	19												Good							955		
HP-997715-00	646664	6	1	20	9	19												Good							955		
HP-997716-00	646664	6	1	20	9	19												Good							955		
HP-997717-00	646846	5	TR	20	11	19												Good							958		
HP-997718-00	646846	5	TR	20	11	19												Good							958		
HP-997719-00	646846	5	TR	20	11	19												Good							958		
HP-997720-00	646846	5	TR	20	11	19												Good							958		
HP-997721-00	646846	5	TR	20	11	19												Good							958		
HP-997722-00	646846	5	TR	20	11	19																			958		

YIELD (A)=0.2% PROOF STRESS (B)=LOWER YIELD STRESS	GAUGE LENGTH (G.L.) (A)=200mm (B)=6mm (C)=80mm (D)=5.63 + 50 (E)=2' (F)=6'	PLASTIC STRAIN RATIO (R) (A)=0 (B)=0.5 (C)=0.5 (D)=(0.1+0.01/245)/4	IMPACT TEST (A)=10mm x 10mm (B)=7.6mm x 10mm (C)=5mm x 5mm (D)=2.5mm x 10mm (E)=5mm x 10mm	CARBON EQUIVALENT VALUE (CE) (A)=C+Mn/6 (B)=C+V+Mn/5+(Cr+Ni)/15	(C)=C+Mn/6 (D)=C+V+Mn/5+(Cr+Ni)/15
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WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED  
WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED / *British Misra*  
OC METALLURGIST

